

S/186/60/002/006/011/026 A051/A129

AUTHORS:

Ishina, V. A., Ivanchenko, A.F., Ziv, D.M.

TITLE:

A study on the electrochemical separation of bismuth from its diluted solutions. III. The effect of oxygen and acidity of the solution on the separation-dissolution potentials of bismuth.

PERIODICAL: Radiokhimiya, v. 2, no. 6, 1960, 691 - 698

TEXT: A comparative study was made on the separation-dissolution potentials ( $f_{\rm S/d}$ ) of bismuth in aerated and non-aerated solutions. The kinetics of the reaction was studied with the aid of the radicactive isotope ThC (Ref. 2: D. M. Ziv, V. A. Ishina, B. S. Ziv, Radiokhimiya, 1, 4, 488, 1959.) The method used for determining the potentials is similar to that described by D. M. Ziv, V. A. Ishina (Ref. 1: Radiokhimiya, 1, 2, 185, 1959). The values of  $\psi_{\rm O}$  (the formal standard potential) were calcualted according to the "least squares" method for the area of the linear relationship of  $\psi_{\rm S/d}$  to lgC, and n (the number of participating electrons in the reaction) was estimated in the same way. It was established that the lowest limit of applying the abbreviated v

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A study on the electrochemical ...

form of the Nernst equation (Climit) for the non-aerated solutions shifts donsiderably toward the lower concentrations widely exceeding the limits of complete coverage of the electrode. The removal of air (oxygen) from the solution is equal in its action to a decrease in the area of the electrode (Ref. 2) which causes the shift of  $C_{limit}$  in the same direction. When the air is removed from the solution, the concentration of the surface oxygen compounds or the surface concentration of the firmly adsorbed atoms of oxygen on the cathode drops sharply and the formation of bismuth is hampered. The possibility of formation of "microelectrode" aggregates is increased which causes the shift of Climit toward lower C. Oxygen participates in the electrode reaction forming bismuth oxides, the heats of formation of which are sufficiently high positive values (for Bi203 H = 137.8 kcal, for BiO H = 49.8 kcal, etc). The Bi residue obtained in the electrolysis were analyzed for oxygen, in order to determine the nature of the electrode reactions of bismuth. The second electrode reaction which may take place in addition to the reaction of simple ion discharge using up three electrons, is given as: BiO+ + e $\equiv$  BiO ( $\varphi_0 = 0.39 \text{ v}$ ) (1). The effect of the acidity of the solution was studied on three concentrations of nitric acid (0.1, 1 and 3 n). The comparative analysis of the obtained data shows that there are only very slight differences in the electrochemical beha-Card 2/4

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A study on the electrochemical ...

vior of bismuth in three concentrations of HNO<sub>3</sub>. Certain features noted in the behavior of the  $\psi_{\rm S}/{\rm d}$  versus lgC<sub>B1</sub> curve are thought to be abmected with the conditions of hydrolysis of bismuth in the given medium. The following ratio is accepted for the formation of the bismutyl ion according to the reaction

$$B10H^{2+} \Rightarrow B10^{+} + H^{+} : log \left[\frac{B10^{+}}{B10H^{2+}}\right] = -3.37 + pH$$
 (3).

The oxygen ionization reaction taking place in the aerated solutions according to the equation:

$$0_2 + 4H^+ + 4e \stackrel{2}{=} 2H_2O \ (\varphi_0 = 1.24 \text{ v, at pH} = 1)$$
 (4)

would facilitate the formation of BiO<sup>†</sup>. BiOH<sup>2+</sup> ions or other products of hydrolysis of bismuth. Experiments showed that the deviation of the value of the angle of decline of the line  $\varphi_{s/d}$  versus lg  $C_{Bi}$  from the theoretical value for the reaction Bi3<sup>+</sup> + 3e =Bi is determined by a side reaction forming bis-

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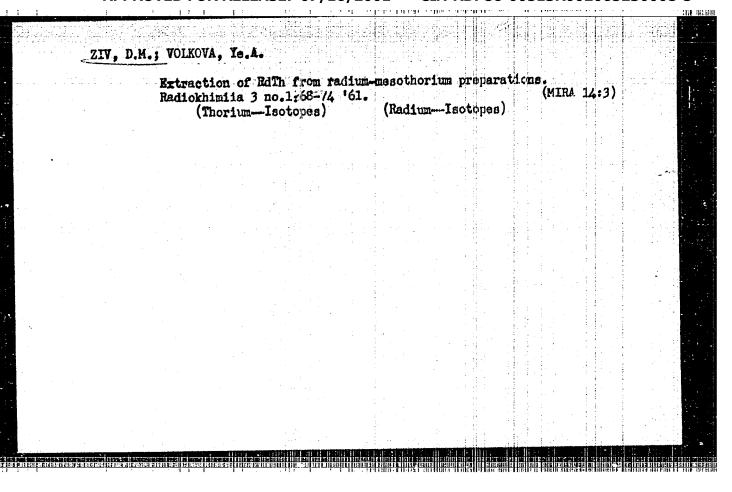
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A study on the electrochemical ....

A051/A129

muth oxides: BiO<sup>†</sup> + e = BiO. There are 5 tables, 3 figures, and 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English language publication reads as follows: J. Van Muylder, M. Fourraux, Proc. 9th Meeting Intern. Comm. Electrochem. Therm. a Kinetics, 47, London, 1959.

SUBMITTED: January 18, 1960.



Ye.A.; ZIV, Making conc no.1:75-78	entrat	ed pre	paration	ns of	MaTh <sub>2</sub>	(Ac	228)	. I	Radiokhi (MIRA )	dia 3 4:3)	
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8/081/61/000/011/008/040 B105/B203

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AUTHORS:

Abramova, L. I., Ziv, D. M.

TITLE

Quantitative determination of small polonium amounts.

Communication II. Sublimation in vacuum

PERIODICAL:

Referativnyy zhurnal, Khimiya, no. 11, 1961, 48, abstract 118337 (Radiokhim. analiz produktov deleniya . M-L.,

AN SSSR, 1960, 104-107)

TEXT: The authors developed a method of quantitative Po separation from powders of wook and artificial mixtures basing on sublimation in vacuo. The sublimation is conducted in a quartz apparatus consisting of a small ball with ground in neck, into which pulverized rock is poured, and of a Platinus disk 15 mm in diameter which is placed on the ground section and pressed on by means of a brass cylinder which simultaneously serves as water cooler for the disk. The whole system is pumped out during the experiment by an initial vacuum pump. The ball of the apparatus is placed in an electric furnace. At a temperature of 700-800°C and a vacuum of

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Quantitative determination of small ...

10<sup>-2</sup>-10<sup>-3</sup>mm Hg, the Po is sublimated during 3 hr and quantitatively precipitated on the platinum disk. The method was used for determining Po in magnetite of known uranium content. The results agreed with the theoretical value within the limits of experimental errors. The authors studied the dependence of Po sublimation on the time of "aging" of the preparation on platinum. It was shown that after 48-hr aging a heating of 700°C during 2.5 - 3 hr is required for the Po sublimation. Communication I, see RZh-Khim, 1961, 105318 (105318). [Abstracter's note: Complete translation.]

Card 2/2

B/186/61/003/001/012/020 A051/A129

21,3400

AUTHORS: Ziv, D.M., Volkova, Ye.A.

TITLE: The formation of RdTh from radio-mesothorium samples

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 68-73

TEXT: The authors recommend a method for the formation of RdTh and RaD from radio-mesothorium samples, and the separation of RdTh from RaD based on the difference in the solubilities of radium, thorium and lend bromides in mixtures of water- 47% HBr, methyl alcohol- 47% HBr and methyl alcohol-ether at different ratios of the mixture components. The method ensures almost complete separation of RdTh and RaD from a Ra-MsTh sample and separation of these compounds without adding a carrier. The alcohol-ether method based on these compounds without adding a carrier. The alcohol-ether method based on the precipitation of RaD with barium bromide is recommended for separating RdTh and RaD from a saturated solution of barium bromide in methyl alcohol using ether. The final yield of RdTh is 86% of the initial quantity. In the experimental procedure first the relationship of the degree of precipitation of barium bromide and radium bromide to the quantity of the added precipitant card 1/4

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The formation of RdTh ...

was investigated (Figs 1,2). The graphical results show the best conditions of precipitation for BuBr, and RaFr<sub>2</sub>. Further, the behavior of RdTh and RaD was studied, each one separately, at various ratios between the volumes of the precipitant and the saturated solution of BaBr<sub>2</sub>. RdTh content was determined by the emanation method. The results obtained are analyzed and it is concluded that the precipitation of BaBr<sub>2</sub> from its saturated water solution or solution in methyl alcohol by a 4-fold volume of 47% HBr results in the main quantities of RdTh, RaD and RaE (about 90%) remaining in the solution. The purification of RdTh from traces of Ra (MaTh<sub>2</sub>) and RaD can be conducted by adding drops of saturated alcohol (CH<sub>2</sub>OH) solution of BaBr<sub>2</sub> (about 10 mg) to the alcohol-ather solution and adbsequent separation of the residue. The purification of RaD from RdTh and barium traces is carried out by precipitating RaD in the form of a sulfide. Together with RaD the same amount of lead is separated as accumulated in the radio-mesothorium sample (RaO, ThD). There are 5 tables, 2 graphs and 11 references: 2 Soviet-bloc,

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S/186/61/003/001/013/020 A051/A129

21.3400

AUTHORS: Volkova, Ye.A., Ziv, D.M.

TITLE: The production of concentrated samples of MsTh (Ac 228)

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 75-78

TEXT: The authors recommend a fast and convenient method for MaTh, formation from radio-mesotherium samples without adding a carrier based on the difference in the solubilities of actinium and barium bromides and barium-radio-mesotherium-1 in mixtures of methyl alcohol and ether. The authors mention mesotherium-1 in mixtures of methyl alcohol and experimental procedures their previous work (Ref 10) on the formation and experimental procedures used for this method. From the results of the previous experiments it is used for this method. From the results of the previous experiments it is seen that 78-89% MaTh, is extracted into the alcohol-ether solution. Ra-MaTh seen that 78-89% MaTh, is extracted into the alcohol-ether solution. Ra-MaTh bromide was used for the extracted of MaTh, from which first RdTh had been bromide was used for the extraction of MaTh, from which first RdTh had been bromide was used for the extracted of MaTh, RaD, RaE, Po, etc. (Ref 10). Since the extracted removed, as well as ThB, RaD, RaE, Po, etc. (Ref 10). Since the extracted removed, as well as ThB, RaD, RaE, Po, etc. (Ref 10) brown caused by MaTh, decayed with a half-life of 6.5 hours instead of 6.15 hours caused by their products of slight admixtures of long-lived radio-elements together with their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), an additional purification of MaTh, their products of decay (Ra, RaD, etc.), and their products of the strain the strain that the strain the strain that the strain the strain that the strain

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The production of concentrated samples of MsTh<sub>2</sub>... A051/A129

was undertaken by adding drops of a saturated solution of BaBr, in methyl alcohol (about 10 mg of FaBr) to the alcohol-ether solution of MsTh, and subsequent separation of the precipitate. The decay curve of MsTh, and in the graph. The half-life of MsTh, is 6.2-6.3 hours. The yield of MsTh after purification is 70-80%. The production of it from radio-mesothorium samples, including purification of Ra-MsTh, traces and Pb isotopes, takes 20-30 minutes and can be carried out continuously over a period of 1-1.5 months, since the quantity of RdTh accumulated in this time is relatively small (1-1.5%), and does not pass into the alcohol-ether solution in noticeable quantities. After this time has passed the separation of the accumulated RdTh should be carried out according to the method described in Ref 10, and only after this Ra-MsTh may be used as a source of MsTh. There are 2 tables, 1 graph and 10 references: 1 Soviet-bloc, 9 non-Soviet-bloc.

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#### "APPROVED FOR RELEASE: 07/16/2001

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L 39090-66 EWT(m)/T/EWP(t)/ETI IJP(c) DG/JD/JG

ACC NR: AP6022878

SOURCE CODE: UR/0186/66/008/002/0197/0206

AUTHOR: Ziv, D. M.; Sukhodolov, G. M.; Fateyev, V. F.; Lastochkin, L. I.

39

ORG: none

TITIE: Study of the electrochemical behavior of elements present in low and ultralow concentrations in solution. Part 1. Dependence of the deposition potential of lead on platinum and gold electrodes on the Fb2+ concentration in solution

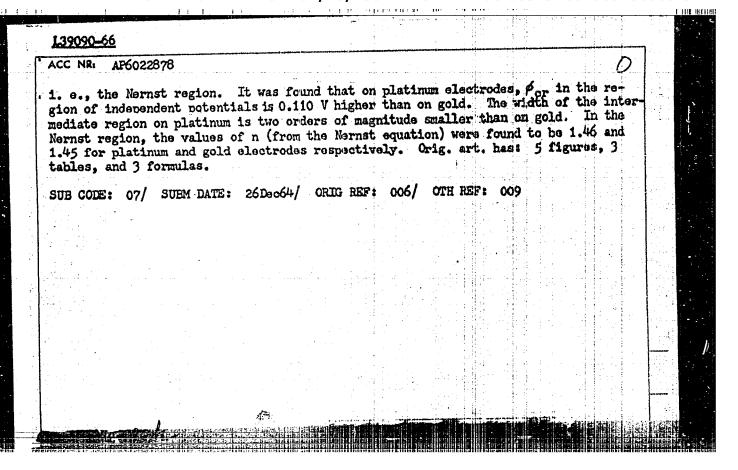
SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 197-206

TOPIC TAGS: electrodeposition, lead, platinum, gold, electrode potential

ABSTRACT: A review of the literature shows that the nature of the electrode material on which the electrodeposition of an element from ultradilute solutions takes place plays a major part in the electrodeposition process. In this connection, the effect of the electrode material on the electrodeposition of lead on gold and platinum electrodes in nitric acid solutions was studied by means of polarization curves of the second kind. The (Pb<sup>212</sup>) was used as the radioactive tracer for lead. The dependence of the critical deposition potential of lead,  $\phi_{\rm cr}$ , on its content in the solution was studied over a wide range of lead concentrations (10<sup>-12</sup> to 10<sup>-2</sup> g-ion/1). The curve expressing this dependence was found to have three regions: 1) region of constant  $\phi_{\rm cr}$ , (2) intermediate region, and (3) region of linear dependence of  $\phi_{\rm cr}$  on log C,

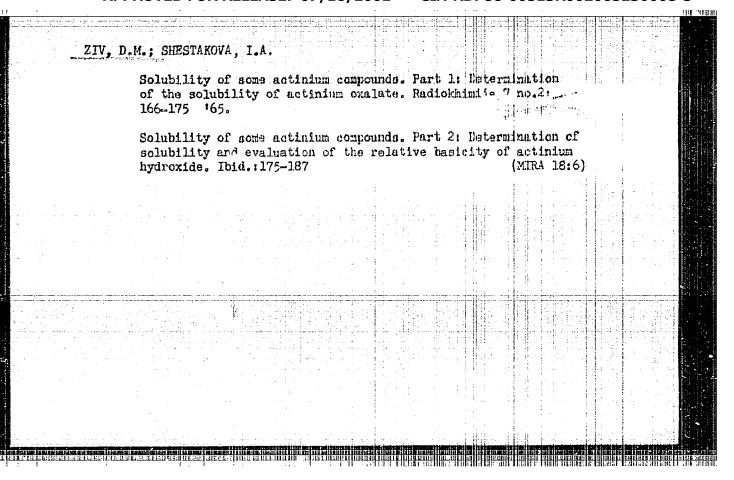
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UDC: 543.53:546.815



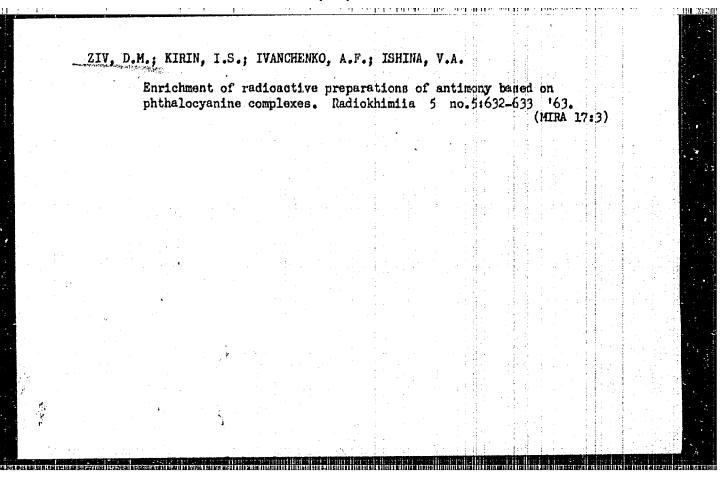
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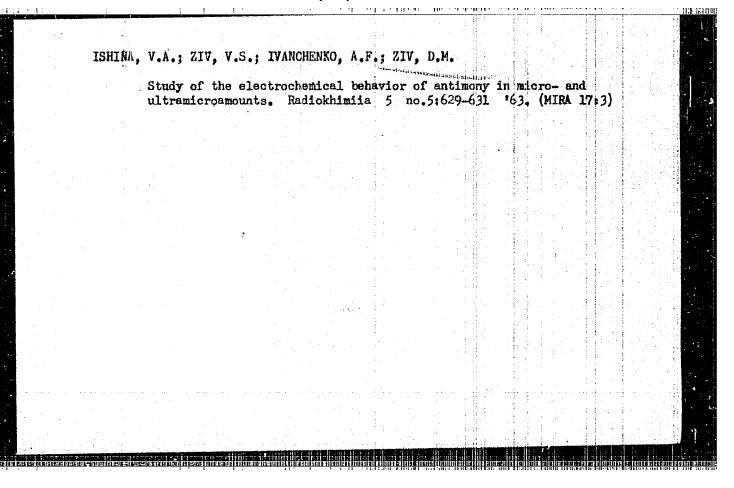
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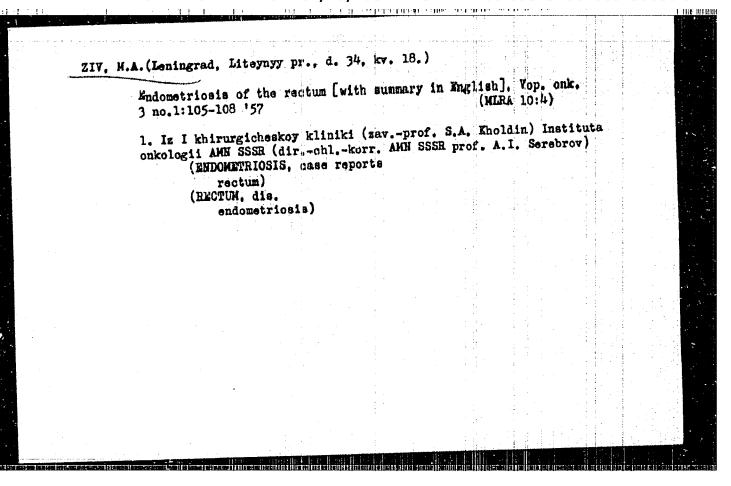


KAIPOV, R.L.; ZIV, D.M.; LEYPUNSKAYA, D.I.; SAVOSIN, S.I.; FEDORGV, V.V.; FRADKIN, G.M.; SHIMELEVICH, Yu.S.; BASIN, Ya.N.; KUKHAREMKO, N.K.; SHESTAKOV, B.I.

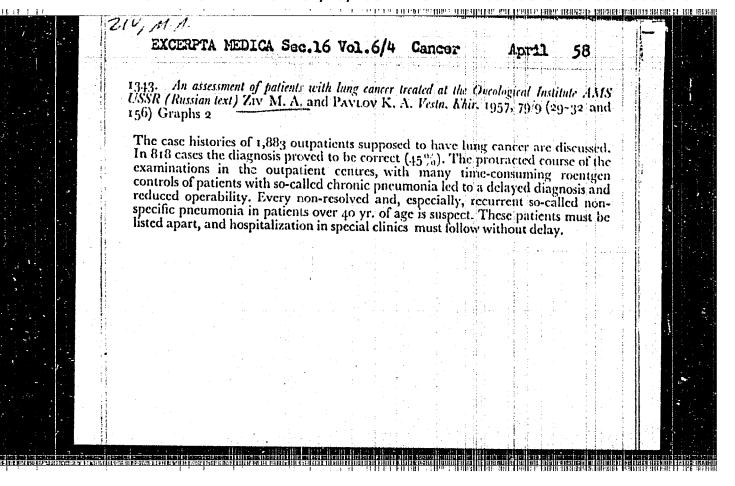
Use of Ac - Be neutron sources in industrial geophysics. Atom energ. 16 no.3:269-270 Mr '64. (MIRA 17:3)







ZIV, M.A. (Leningrad, Liteynyy pr., d.34, kv.18); PAVLOW, K.A. (Leningrad. ul. Voinova, d.64, kv.15); VOL'FSON, H.I. (Leningrad, ul. Dserzhinskogo, d.25, kv.B) Effects of ozain on skin cancer and the precancerous state [with summery in English]. op.onk. 3 no.2:221-226 157. 1. Iz laboratorii eksperimental noy onkologii (mav. - chlen-korr. Akademii meditsinekikh nauk SSSR prof. L.M. Shabad) i nauchnopoliklinicheskogo otdela (mav. - a . nauchnyy sotr. K.A. Fayloy) Instituta onkologii Akademii medi einskikh nauk SSSR (dir. - chlenkorrepondent Akademii medita nakikh nauk SSSR prof. A.I.Serebrov). (SKIN NEOPLASMS, ther, deacetyl-E-methyloolchicine in oncer & precencerous state (Rus)) (COLCHICIME, related cods. deacetyl-M-methylcolohicine, ther. of skin cancer & precazcerous state (Rus))



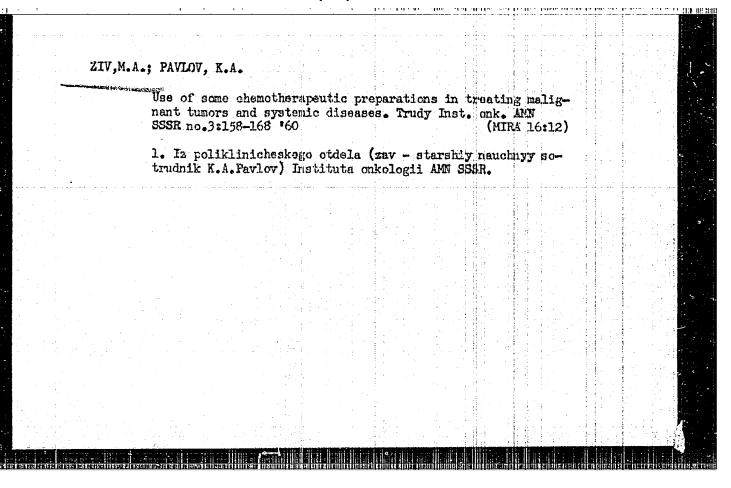
Interesults of chemotherapy in lymphogranulomatosis. Vop.
onk. 4 no.2:161-166 '58. (NIRA 12:8)

1. Iz Instituta onkologii ANN SSSR (dir. - deystvitel'nyy chlen
AMN SSER prof.A.I.Serebrov). Adres avtorov: Moskva, 3-ya
Meshchanskaya ul., d.61/2, korp.9. Institut eksperimental'noy
patologii i terapii raka.
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Hodgkin's dis., late results (Rus))
(HODGKIN'S DISKASE, ther.
M-bis (2-chlorothyl)-2-chloropropylamine,
late results (Rus))

Eronchogenic tyst of the posterior mediastinum. Vest. Mir. 82
no.1:131-132 Ja '59. (MIRA 12:2)

1. Iz khirurgicheskogo otdeleniya (sav. - prof. S.A. Rholdin)
Instituta enkologii AMN SSSR.
(MEDIASTINUM, cysts
bronchogenic of posterior mediastinum (Rug))



DYMARSKIY, L.Yu.; DIL'MAN, V.M.; ZAIESSKAYA, L.I.; ZIV. M.A.; BOGHBOV, Ye.A.; PAVLOVA, M.V.

Combined hormone and chomotherapy and radiotherapy of far advanced breast cancer. Vop. onk. 9 no.7244-52 163.

(MIRA 16:12)

1. Iz Instituta onkologii ANN SSSR (nauchnyy rukhyodital' raboty chlen-korrespondent ANN SSSR prof. S.A. Kholdin). Adris avtorovi Leningrad, P-129, Institut onkologii ANN SSSR.

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ZIV, M. A.; PAVLOV, K. A.

Experience with the use of some chemo-therapeutic preparations in the treatment of malignant neoplasms and systemic diseases. Vop. klin. lech. zlok. novoobraz. 7:105-117. 61.

1. Institut onkologii AMN SSSR (dir. deystv. chl. AMN, SSSR prof. A. I. Serebrov).

(ANTINEOPLASTIC AGENTS ther)

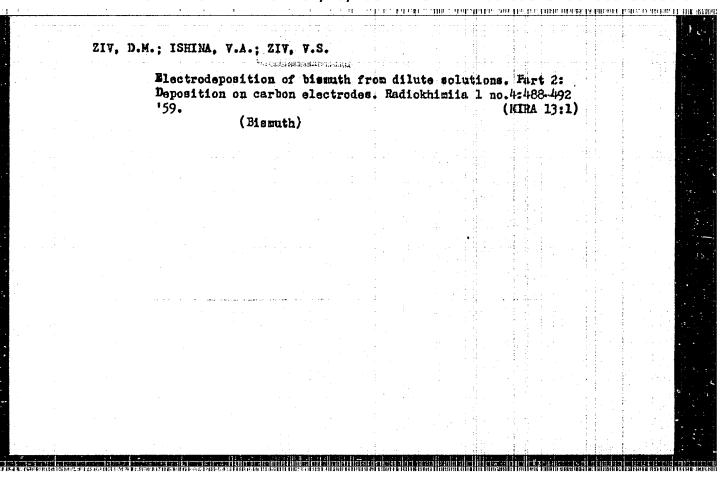
Use of the electrochemical method for determining the solubility of polonium hydroxide. Frudy Radiev.inst.AN SSSR. 8:158-162

158. (MIPA 12:2)

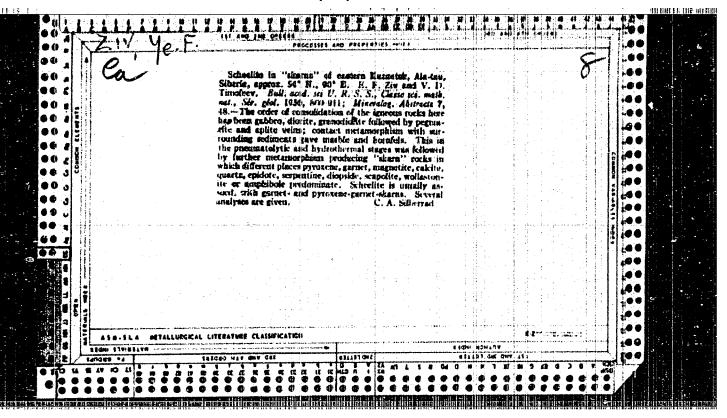
(Polonium hydroxide) (Electrochemistry)

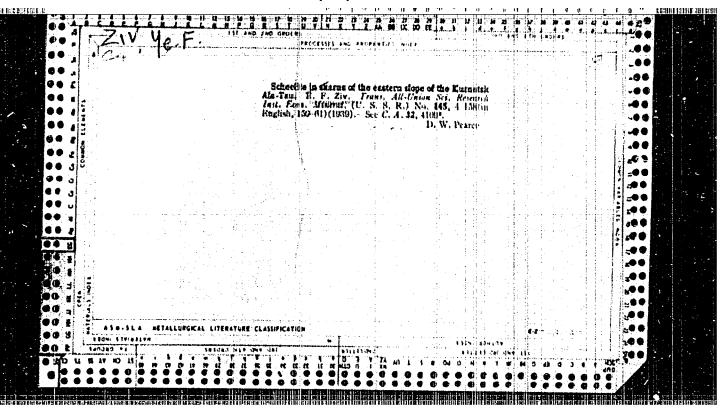
ISHINA, V.A.; ZIV. V.S.; IVANCHENKO, A.F.; ZIV, D.M.

Study of the electrochamical behavior of antimony in micro- and ultramicroamounts. Radiokhimiia 5 no.5:629-631 '63. (MIRA 17:3)



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[Industry's requirements as to the quality of mineral raw material; hend-book for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlin geologov, Moskva, Gos.nauchng-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.49. [Niobium and tentalum] Niobii i tantal. Izd.2., perer. 1959. 49 p.

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Niobium) (Tantalum)

SAMSOHOV, Grigoriy Valentinovich; KONSTANTINOV, Vladimir Ivanovich.

Prinimali uchastiys: Zhika Yarkai KOSOLAPOVA, T.Ya. HIKOLAYEV.

N.S., doktor khim.nauk, setsenzent; VAYSEHBERG, A.I., kand.tekhn.

nauk, retsenzent, red.; KOLCHIN, O.P., kand.tekhn.nauk, retsenzent,

red.; AKHANGEL'SKAYA, M.S., red.izd-va; VAYNSHYEYN, Ye.B., tekhn.

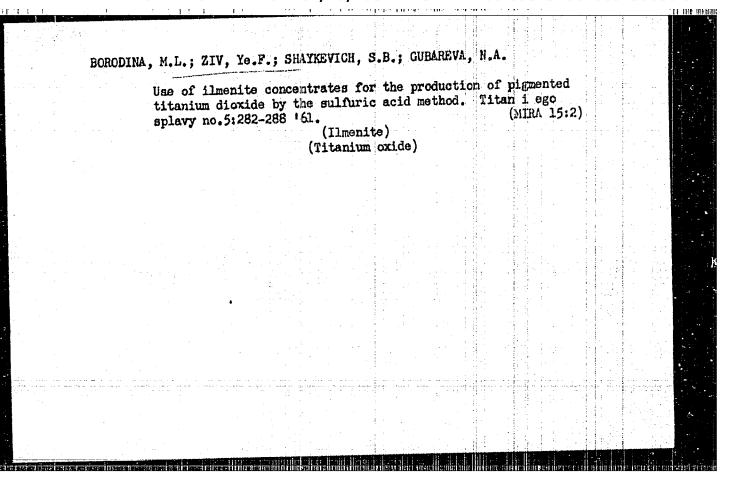
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[Tantalum and niobium] Tental i niobii. Moskva, Gos.nauchno-tekhn.

izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 264 p.

(HIRA 12:11.)

(Tantalum) (Niobium)



\$/137/62/000/006/030/163 A006/A101

AUTHORS:

Borodina, M. L., Ziv, Ye. F., Shaykevich, S. B., Gubareva, N. A.

TITLE:

Utilization of ilmenite concentrates for the production of pigmentary titarium dioxide with the aid of the sulfuric acid method

PERIODICAL: Referativnyy zhurnzl, Metallurgiya, no. 6, 1962, 13, abstract 6096 (In collection: "Titan i yego splavy", no. 5, Moscow, AN SSSR, 1961

282 - 288)

TEXT: It was established that with greater intensity of nitilizing the ilmenite concentrate, the degree of Ti extraction decreases from 94 to 76%. Best results regarding the requirements of pigmentary TiO, production by the sulfuric acid method, are obtained with a concentrate of the following composition: Tio 49 - 53%; FeO 20 - 31%; Fe<sub>2</sub>O<sub>3</sub> 14 - 22%; the amount of rutilized ilmenite is 0.3 - 1.78%. Pigmentary TiO<sub>2</sub>, obtained from this concentrate, is distinguished by a high degree of whiteness and dispersity, and is characterized by the least Cr and V admixtures.

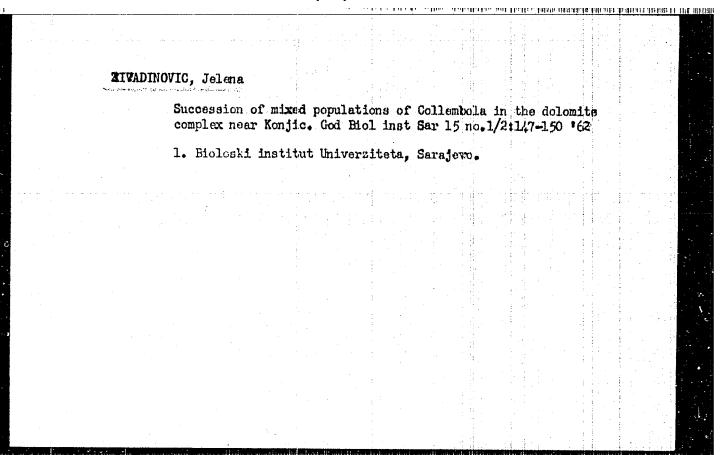
[Abstracter's note:

Complete translation

L. Vorob'yeva

Card 1/1

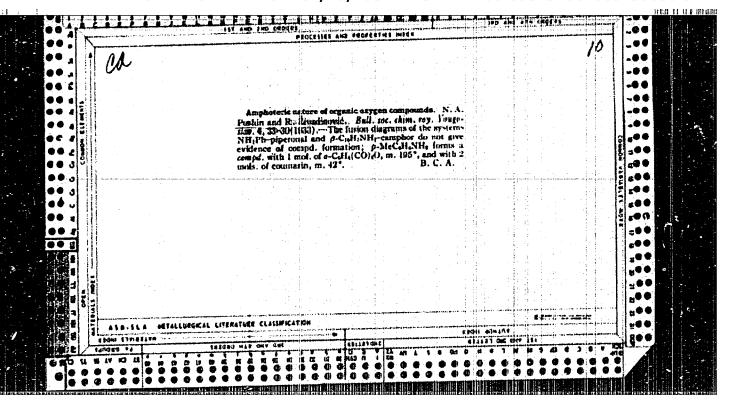
X-ray investigation of iciclaurionite. Bul Inst Mucl 10:47-50 Mr (SEAI 10:5)  1. Institute of Nuclear Sciences "Boris Kidrich" Laboratory of Physical Chemistry.  (Iciclaurionite) (X rays)	MA	LCIC, Stjepan S	.; ZIVADINOVIG, KIL	utin S.		
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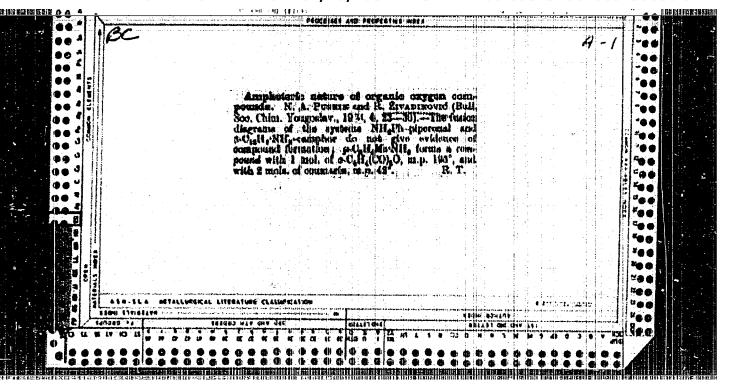


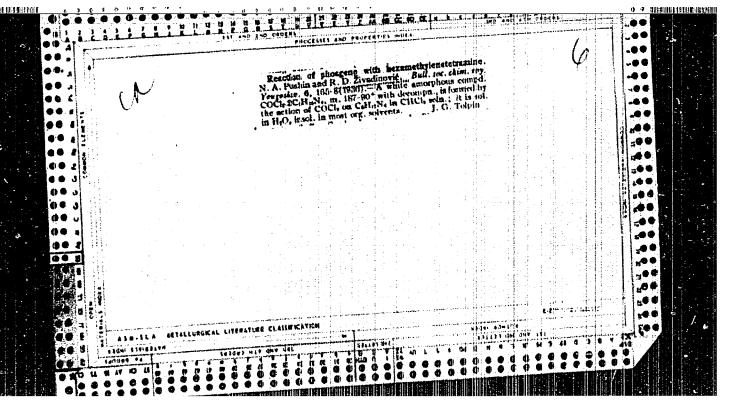
ZIVADINOVIC, Milutin, dipl. fiz.hem. (Beograd, Ljube Stojanovica 38/3)

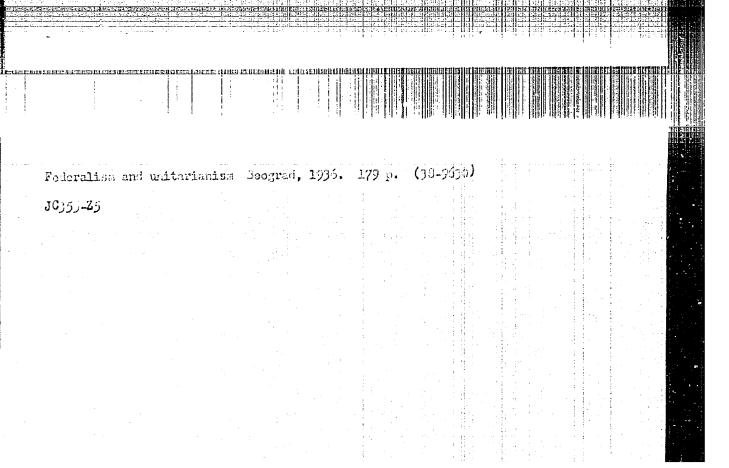
Neutron diffractometer at Vinca. Telmika Jug 18 no.7:Supplement:
Radioizotopi zrac 2 no.7:1219-1221 J1\*63.

1. Institut za nuklearne nauke "Boris Kidric", Beograd-Vinca.









### RADIOBIOLOGY

# YUGOSLAVIA

KILIBARDA, M.; MARKOVIC, B.; ZIVANCEVIC, S. and PANOV, D.; Institute of Occupational Medicine of the Socialist R public of Serbia (Institut za medicinu rada SRS,) Belgrade.

"Osmotic Resistance of Leukocytes Following Fractionated X-Irradiation of Rats."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 16, No 4, 1965; pp 353-356.

Abstract [English summary modified]: Whole-body irradiation in rats exposed to X-rays 1 r per min, 3 mA 70 kV for 20 minutes weekly for 20 weeks was followed by a progressive fall in osmotic resistance and longevity of white blood cells. Table, graph, 2 Soviet and 7 Western references; ms received 21 Jan 65.

1/1

ZIVANIVIC. Svetolik (Eng.)
"The variant of the normal guage railway line Sarajevo - Mostar - Luka Floce"

So: ZELEZNICE No. 6, Year XI, June 1955

RESULCVIC, H.; ZIVANOV, N.; JOVANDIC, P.

Characteristics of the composition of an adsorptive complex of a series of soils developed on Triassic limestone. Zemljiste biljka 12 no.1/3:95-102 Ja-D '63.

1. Agricultural Faculty of the University of Sarajevo, Sarajevo,

RISTIC, M. M.; RADIC, S.; ZIVAMOVIC, B.

Characteristic parameters of sintering as measures of the effect of compacting pressure on the sintering of uranium dioxide. Bul Inst Nucl 14 no. 4: 199-208 0 163.

1. Department of Reactor Materials, Boris Kidric Institute of Nuclear Sciences, Beograd-Vinca.

ZIVANOVIC, B.; RISTIC, M.M.

Balance of energy at high-temperature torsion of sintered UO2.
Bul Inst.Nucl 13 no.3:31-39 0 '62.

1. Department of Reactor Materials.

ZIVANOVIC, D.

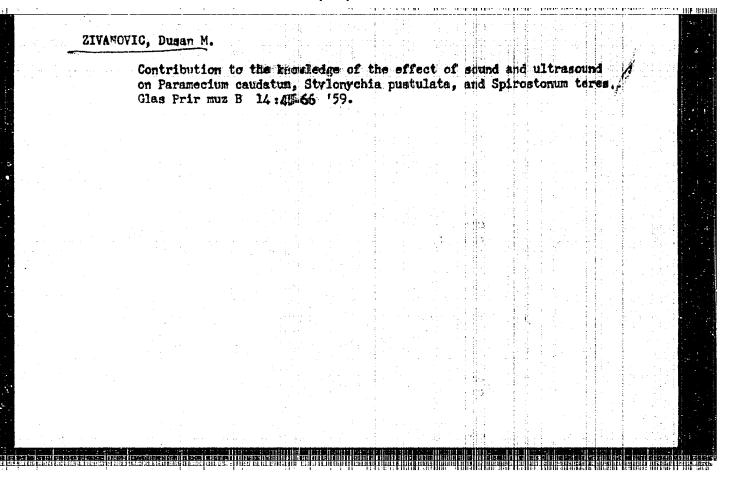
The application of photometry in the metal industry. p. 1521 (Tehnika, Vol. 11, no. 10, 1956. Beograd Yespelavia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6. No. 7. July 1957. Uncl.

ZIVANOVIC, Dusan (Gradac kod Pljevalja)

Results of the biogeochemical prospections for lead in the region of Suplje Stilene, for iron and aluminum in the region of the Arandelovac busin, and for fireproof clays, iron and manganese in Slovenia. Geol vies Hrv 14:379-380 '60 (publ. '61).

1. Rudnik olova i cinka "Suplja Stijena", Gradac kon Pljevalja, Crna Gora.



ZIVANOVIC, Miodrag, D. SURTAGE (in caps); Given Names

Country: Yugoslavia

Academic Degrees: not given

Affiliation: Department of Reactor Physics, Institute of Nuclear Sciences

Boris Kidrich

Source: Belgrade-Vintcha, Bulletin of the Institute of Nuclear Sciences

"Boris Kidrich", Vol 11, Mar 1961, pp 59-65.

nata: "Double-Crystal Neutron Spectrometer."

Co-authors:

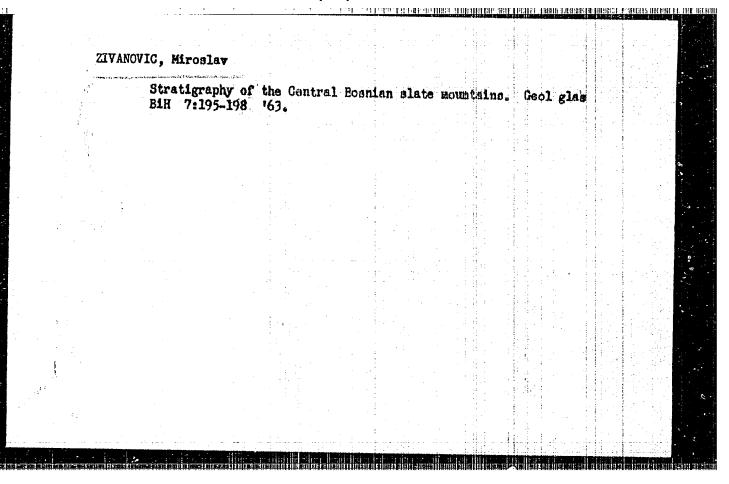
JOVIC, D.jordje, M., Department of Reactor Physics, Institute of Nuclear Sciences "Boris Kidrich", KONSTANTINOVIC, Jovan, M., Department of Reactor Physics, Institute Nuclear Sciences Boris Kidrich".

CIA-RDP86-00513R002065230008-5" APPROVED FOR RELEASE: 07/16/2001

ZIVANOVIC, Miodrag D.; JOVIC, Dorde M.; KONSTANTINOVIC, Jovan M.

The neutron two-crystal spectrometer. Bul Inst Micl 11:59-65
161.

1. Institute of Nuclear Sciences "Boris Kidrich," Department of Reactor Physics, Vinca.



MLADEMOVIC, Dragomir, Dr.; ZIVAKOVIC, Mata, Dr.

Two cases of uterine tamponade in partial placenta praevia. Med.
glasn. 9 no.6:238-240 Juna '55.

1. Ginekolosko-akuserska klinika Medicinakog fakulteta u Beogradu
(upravnik prof. dr Tasovac) Ginekolosko-akusersko odeljenje Bolnice u Sapcu (upravnik dr Hovakovic).

(PLACENTA PRANVIA,
partial, with uterus temponade)

ZIVANOVIC, Olivera, sanitetski majer drj STOJADIMSVE, Nada, vojni sluzbenik
V kl. san. sluzbe dr; MILIO, Mirjana, tehnicki saradnik laborant;

AKSENTIJEVIC, Vida, technicki saradnik laborant;

Results of studies on Staphylococcus pyogenes found in the infectious section of the ward for the burned. (Plastic Surgery Clinic of the Military Medical Academy. Vojnosanit. pregl. 19 no.6:423-432 Je '62.

1. Vojnomedicinska akademija u Beogradu, higijenski zavod -- Mikrobioloski institut.

(BURNS) (CHOSS INFECTION) (STAPHYLOCOCCAL INFECTIONS)

# ZIVANOVIC, Olivera, sanitetski kapetan I klase, dr.

Contribution to the study on pathogenic properties of Staphylococcua albus isolated from surgical material and hands of the personnel in a surgical ward. Voj.san.pregl. 18 no.3:281-284 Hr '61.

1. Vojnomedicinska akademija u Beogradu, Higijenski zavod - Mikrobio-loski institut.

(STAPHYLOCOCCUS) (SURGERY OPERATIVE)

1. Vojnomedicinska akademija u Beogradu, Higijenski navod, Mikrobioloski institut.  (BACTERIOPHAGE) (STAPHYLOCOCCUS)	On the sig 18 no.6/7:	nificance 559-563	of ph Je-Jl	age ty	ping of	staph	glococ	c1. Voj	.san.preg	1.
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ARNERIC, Slavko, sanitetski potpukovnik, dr.; ZIVANOVIC, Dlivera, sanitetski kapetan I kl., dr.

Role of Staphylococcus gureus in skin diseases and its relation to some antibiotics. Vojnosanit. pregl. 19 no.3:207-209 Mr '62.

1. Vojnomedicinska akademija u Beogradu, Klinika za kozne i polne bolesti, Higijenski zavod - Mikrobioleski institut.

(ANTIBIOTICS) (DRUG RESISTANCE MICROBIAL)

(STAPHYLOCOCCAL INFECTIONS) (DERMATITIS)

ZIVANOVIC, Srboljub, asistent, dr.

Contribution to the study of the physical growth of boys and girls of secondary schools in Zemun according to the determination of Rohrer's index with the method of Gavrilovich. Glas. hig. inst. 10 no.1/2:55-59 Ja-Je '61.

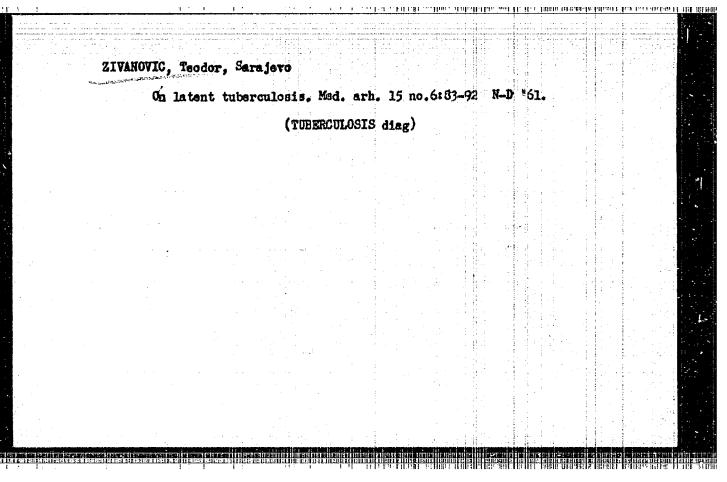
1. Anatomski institut Medicinskog fakulteta u Beogradu Upravnik: Prof. dr Branko Sljivic.

(GROWTH)

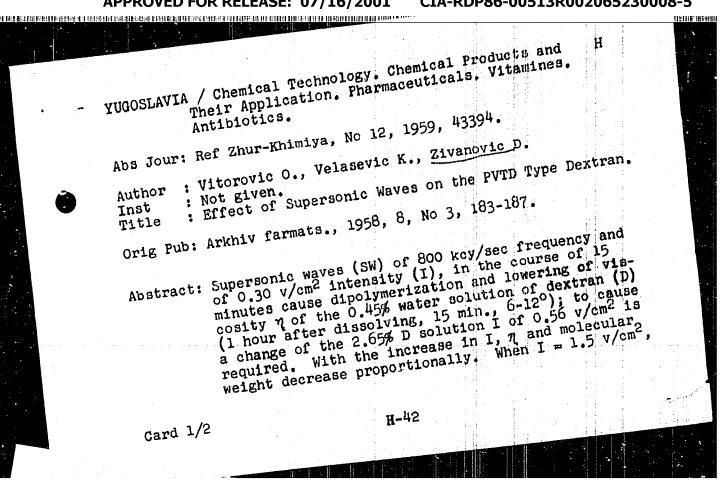
ZIVANOVIC, Srboljub; LOLIC-DRAGANIC, Vera

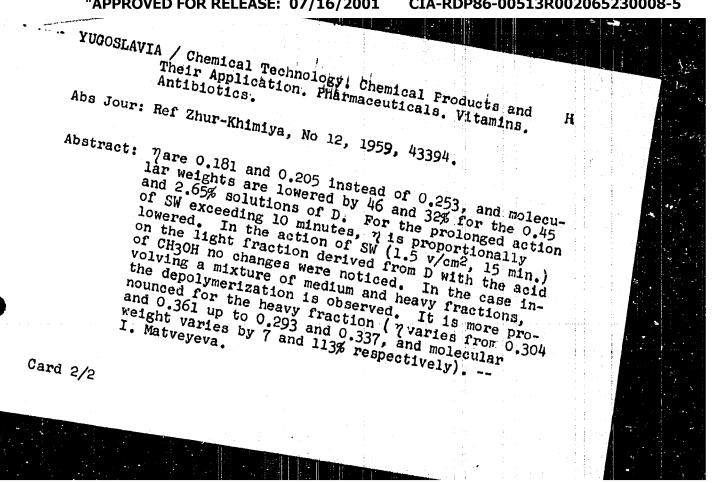
Tuberculum intercaseum radii and its ligaments. Med. pregl. 17 no.7:365-369 \*64

1. Zavod za anatomiju Medicinskog fakulteta u Novom Sadu (Upravnik: Prof. dr. Sinisa Radojevic).



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## ZIVANOVIC. D.

Effect of supersonics on the germination of corn saed.

P. 81 (Belgrade. Institut za fiziologiju razvica, genetiku i selkciju. ZPORNIK RATOVA. No. 4, 1956, Beograd, Yugoslavia)

Monthly Index of East European Accessions(EEAI) LC. Vol. 7, no. 2, February 1958

YUGOSLAVIA / Analytical Chemistry. Analysis of Inorganic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67287.

Author : Zivanovic D., Maslov F.

: Not given. Inst

: Determination of Tungsten in Ores. Title

Orig Pub: Tehn. pregl., 1956, 8, No 4, 84-86.

Abstract: A procedure for the determination of W in ores by a gravimetrical method is described. A comparison of results obtained by gravimetrical and photomerical methods on one of the Yugoslavian ores is given. 0.5-5.0 gr samples and heated in 100 cc of concentrated HCl on a sand bath until the total

Card 1/3

YUGOSLAVIA / Analytical Chemistry. Analysis of Inorganic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67287.

Abstract: volume of solutoin is reduced to approximately 40 cc, followed by the addition of 10cc of concentrated HNO2, reduction of the volume by approximately 5cc, addition of approximately 200cc of water, 10 cc of cinchonine (I) (125 gr I in HCl, 1:1); the solution is then kept for 2 hours in a warm place and filtered. The precipitate is washed with a dilute solution of I, dissolved in 15cc of NH40H (1:2), allowed to stand for 10 minutes, and filtered. The resulting filtrate is heated (to remove excess NH3), diluted to 200cc with boiling water, followed by the addition of 3cc of concentrated HCl and 10cc of I solution, and kept for 2 hours warm. The precipitate, removed by filtration,

is washed with the dilute solution of I, dried,

Card 2/3

23

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YUGOSLAVIA / Analytical Chemistry. Analysis of Inorganic E Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67287.

Abstract: calcined at 750°, and weighed as WO3. For the photometrical determination of W, previously described method (Grimaldi F., North C., Ind. Eng. Chem., Anal. Ed., 1943, 15, 625) is used. It is based on fusing of a sample with Na<sub>2</sub>O<sub>2</sub>, dissolving it in water, adding NH<sub>4</sub>SCN and SnCl<sub>2</sub> (in the form of an acid solution), and subjecting the resulting solution to photometrical analysis while employing a violet filter S42E (Zeiss). Results of the gravimetric and photometric determinations coincided and were within the limits of normal analytical errors.

Card 3/3

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Ziva novic, D.

Yugoslavia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1261

Author: Zivanovic, D.

Institution: None

Title: Application of Photometry in Flotation During the Wet Separation of

the Ores and in the Determination of Noble Metals

Original

Periodical: Technika, 1956, Vol 11, No 7, 1010-1017 (published in Croat with a

summary in German)

Abstract: The photometric technique is applied to the determination of Cu in

rocks, ores, and flotation concentrates; the method is based on the dissolution of the sample in a mixture of  $\rm E_2SO_4$  and  $\rm HNO_3$ , evaporation to dryness, dissolution of the residue in water, and addition of ammonia. The photometric determination is carried out with a wavelength of 7,200 A. Lead is determined photometrically with a wavelength of 4,200 A, with the addition of Na<sub>2</sub>S in the presence of an

acetate buffer with pH 4.6 and of gelatin solution. For the

Card 1/2

Yugoslavia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1261

Abstract: determination of W in ores the metal is first converted to Na<sub>2</sub>WO<sub>4</sub>

and the photometric determination is carried out at 4,200 A after addition of NH4SCN and SnCl2.

Card 2/2

Yugoslavia/Analytical Chemistry. General Topics.

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19509.

Author : Dusan Zivanovic.
Inst :
Title : Application of Photometry to Industrial Checking.

Orig Pub : Tehnika, 1956, 11, No 10, 1521-1526.

The part of photometric methods of industrial checking, especially in the metallurgical industry, and the advantages of these methods as compared with chemical methods were discussed. The usefulness of photometric methods of analyses of usual and small size samples was shown, the checking of the quantometer was described and examples of using photometric methods in various regions were cited. It is recommended to determine Cu in the form of the tetramine complex Cu(NH<sub>3</sub>)<sub>4</sub>, Pb in the form of PbS sol, Zn in the form of a complex with SCN- and methyl violet, Cr in the form of CrO<sub>4</sub>, Au in the form of Au<sup>0</sup>, and Pt<sup>2+</sup> by the

Card 1/2

Abstract

-23-

Yugoslavia/Analytical Chemistry. General Topics.

G-/

Abs Jour

: Referat. Zhurnal Khimiya, No 6, 1957, 19509.

coloration of molybdenum blue. The above methods are applicable in particular for checking the processes of flotation and wet methods of concentration.

Card 2/2

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ZIVANCVIC, D.: MAGLOV, T.

ZIVANOVIC, D.; MASLOV, T. Contribution to determining welfred the greet. p. 84.

Vol. 8, No. 4, 1956. TECHNICKI PREGLED TECHNOLOGY Zagreb, Yugoslavia

So: East European Accession, Vol. 6, No. 2, Feb. 1957

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ZIVANOVIC, D.

Use of photometry in flotation, in wet separation of ores, and in analysis of precious metals. p.10101 TEHNIKA (Savaz inzenjera i techicara Jugoslavije) Beograd. Vol. 11, no. 7, 1956.

SCURCE: East Europe Accession Lists (EEAL), Library of Congress, Vol. 5, no. 11, Nov. 1956

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E YUGOSIAVIA/Analytic Chemistry. Analysis of Inorganic Substances. Abs Jour: Ref Zhur-Khin., No 23, 1958, 77338. Author : Zivanovich Dusan. : Application of Potentionetric Method to Titrinetric Inst Determination of Percentual Iron Content in Iron Title Ores and of Manganese Content in Ferromanganese and Manganese-Silicon. Orig Pub: Tehnika, 1958, 13, No 2, Hen. ind., 12, No 2, 22-26. Abstract: In the determination of Fe, 0.5 g of the rock to be analyzed is dissolved in the nixture of 30 ml of HCl (1; 1), 30 ml of HNO; (1: 1) and 15 ml of H2SO4 (1:1), the solution is evaporated until funes of SO3 appear, diluted with water and filtered. : 1/3 Card

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YUGOSLAVIA/Analytic Chemistry. Analysis of Inorganic Substances.

Abs Jour: Ref Zhur-Khin., No 23, 1958, 77338.

The insoluble residue is burnt with the filter, evaporated with 1 ml of 40%-ual HF and 1 or 2 drops of concentrated H<sub>2</sub>SO<sub>4</sub> until dry, and fused with K<sub>2</sub>S<sub>2</sub>O<sub>7</sub>. The fuse is dissolved in dilute H<sub>2</sub>SO<sub>4</sub> and the solution is combined with the original filtrate. The prepared solution (solution A) is evaporated to about 100 ml, heated with 5 ml of concentrated HCl to the boiling point, and SnCl<sub>2</sub> is added in a little excess (1 to 2 drops) for the reduction of Fe<sup>-+</sup>; 100 to 200 ml of water, 10 ml of HgCl<sub>4</sub> solution, 50 ml of mixed H<sub>2</sub>SO<sub>4</sub> and H<sub>2</sub>FO<sub>4</sub> (150 ml of H<sub>2</sub>SO<sub>4</sub>, 100 ml of H<sub>2</sub>PO<sub>4</sub> and 750 ml of water mixed together), and 12 drops of 15-ual diphenylamine solution in concentrated

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YUGOSLAVIA/Analytic Chemistry. Analysis of Inorganic Substances.

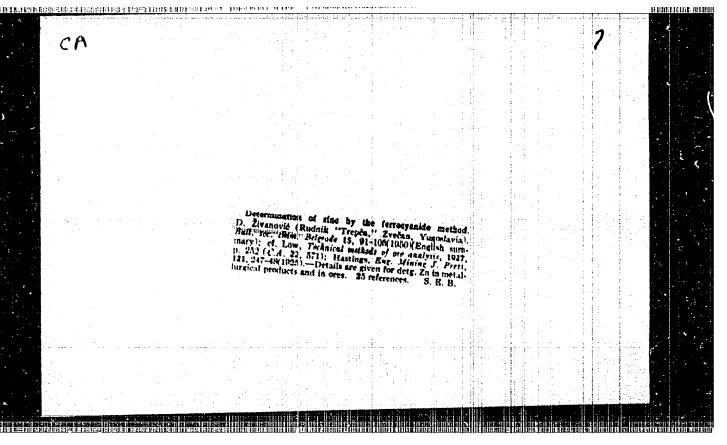
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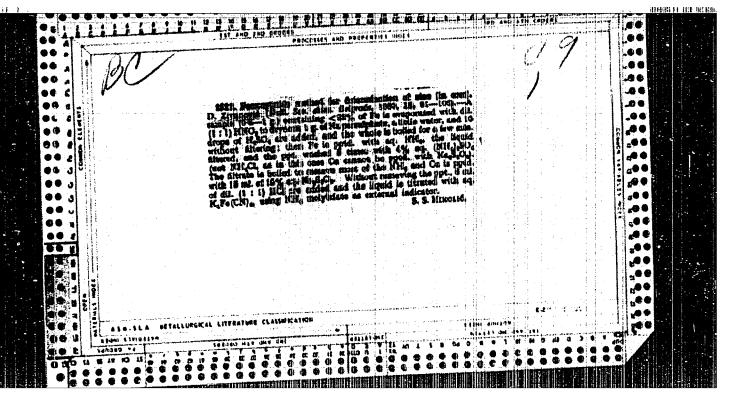
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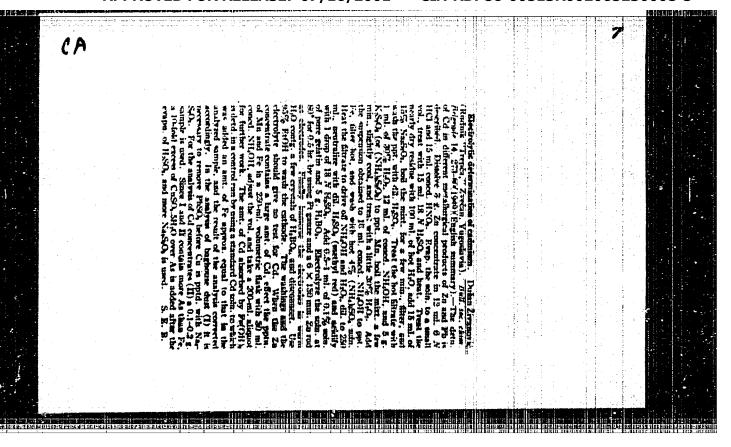
H<sub>2</sub>SO<sub>4</sub> are added, and the hixture is titrated potentiometrically with 0.1 n. k<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> solution. For Mn determination, the analysis is started in the same way up to the preparation of the solution A, which is diluted with water to 250 nl after that. 25 g or more of solid Na<sub>2</sub>P<sub>1</sub>O<sub>7</sub>.H<sub>2</sub>O and up to about 300 nl of water are added to 25 nl of the dilute solution, pH is adjusted on the level of 6 to 6.5 with H<sub>2</sub>SO<sub>4</sub>, and it is titrated with 0.02 n. KMnO<sub>4</sub> solution. Both the methods give reproducible results. • N. Turkevich.

Card : 3/3

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1. Institute of Nuclear Sciences "Boris Kidrich" Lahoratory of Physics.  (Lead) (Grystals)		Dorde M.]	crystals of l	ead. Bul	Inst Kucl	10:43-46	Kr 160.	
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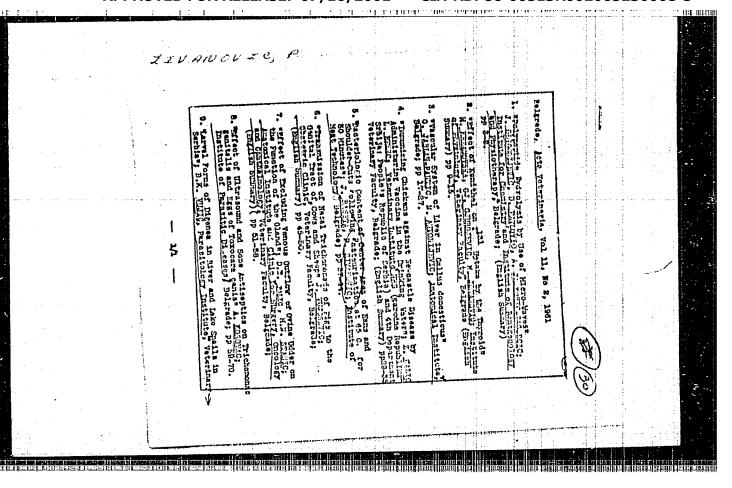
ZIVANOVIC, Olivera, dr., sanitetski major; UZELAC, Ozren, sanitetski puk.

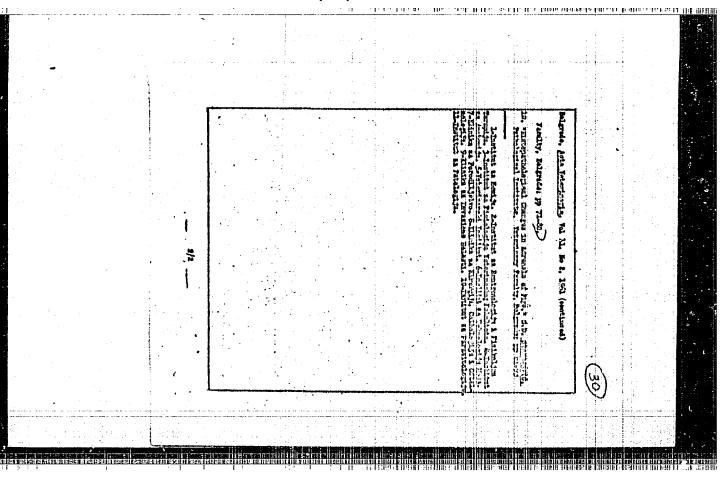
doc.; ILIC, Pavle, sanitetski kapetan, dr.; SEHTIC, Anica, sanitetski
major, dr. Tehnicki saradnici: MILIC, Mirjana, AKSENTIJEVIC, Vida

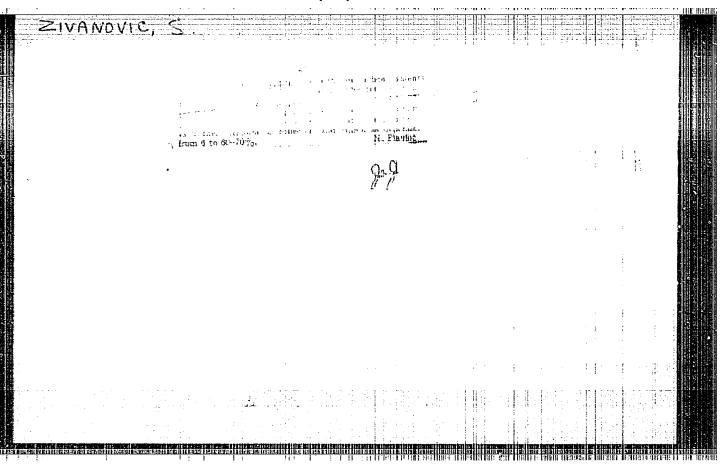
Incidence and phagotypes of Staphylococ is pyogenes in turns
and vicinity. Vojnosanit. progl. 21 no.12:765-770 D'64.

1. Klinika za plasticku hirurgiju, Mikrobioloski institut, Vojnomedicinska akademija u Baogradu.

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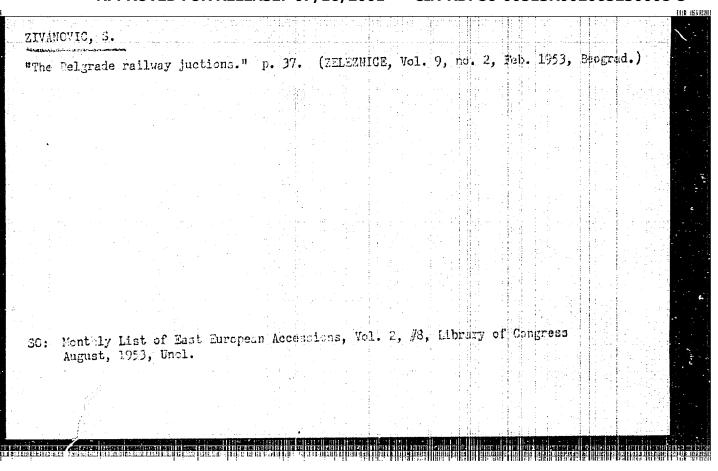


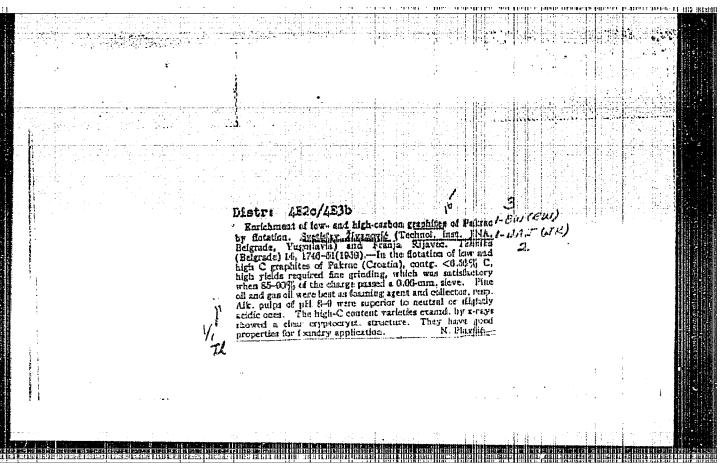




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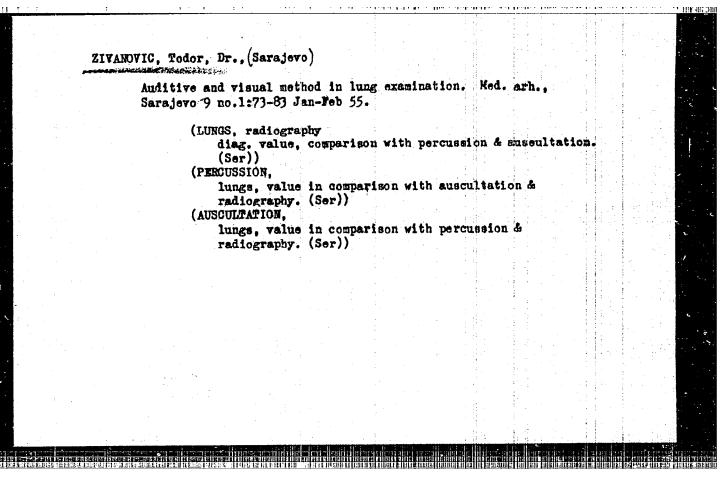




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